

Application No.: 10716744
Amdt. dated September 1, 2009
Reply to Office Action of June 25, 2009

Amendments to the Specification:

Please replace the Title with the following amended Title:

Method and apparatus of shadowgram- for pseudo-projection formation for optical tomography

Please replace paragraph [0080] with the following amended paragraph:

[0080] For example, as shown in FIG. 8A and FIG. 8B a graphical representation of the motion, and camera exposure for a system as contemplated by the present invention is shown. Waveform R shows a ramp function useful for driving the actuator 57 to move an objective lens 40 or 60 an axial distance of about 40 microns or more with respect to the specimen for each incremental rotation of the micro-capillary tube. This function is depicted as a linear ramp but may take the form of a sine wave, a ramp function with rounded transitions, or any other function (linear or nonlinear) to provide the desired weighting of focal plane information and the most predictable actuator motion. During a portion each period of the waveform R, the detector array is turned on for a single exposure as indicated by the "ON/OFF" function graphed in FIG. 8B. Thus, for each period of relative motion of the objective, a pseudo-projection image of the specimen is scanned onto the detector array in a continuous scan over a single exposure. Scanning is repeated for various views of the specimen as the micro-capillary tube is rotated. The pseudo-projection image thus formed is an integration of the range of focal planes plane images by the objective onto the detector array during each period of the scanning waveform R.